

I CLAIM:

1. A shock dampening system for mitigating the impact of mechanical shock imparted to a structure comprising:
 - (a) at least one damper body for coupling to a first portion of the
5 structure, said damper body including horizontal top and bottom plates vertically offset one from the other, and at least one connecting device extending vertically therebetween, said connecting device being fixedly attached to at least one of said horizontal top and bottom plates, said connecting device having a predetermined sectional contour and being
10 multi-dimensionally deflectable relative to said horizontal top and bottom plates; and
 - (b) a supporting assembly coupled to said damper body for securement to a second portion of the structure, said supporting assembly including a plurality of elongate braces connected to extend from at least one
15 of said horizontal top and bottom plates.
2. The shock dampening system as recited in Claim 1 wherein each of said horizontal top and bottom plates are substantially planar in contour, said horizontal top and bottom plates having respective inner faces disposed one opposed to the other, each of said horizontal top and bottom
20 plates having at least one locating groove recess formed in said inner face

thereof, said locating groove recess receptively engaging a portion of said connecting device.

3. The shock dampening system as recited in Claim 2 wherein said connecting device is substantially cylindrical in contour.

5 4. The shock dampening system as recited in Claim 2 wherein said connecting device is substantially I-shaped in elevational contour.

5. The shock dampening system as recited in Claim 4 wherein each said horizontal top and bottom plates is substantially rectangular in contour.

6. The shock dampening system as recited in Claim 1 wherein said
10 damper body includes a plurality of said connecting devices.

7. The shock dampening system as recited in Claim 6 wherein each said connecting device is substantially triangular in elevational contour.

8. The shock dampening system as recited in Claim 6 wherein each said connecting device is intermediately tapered inward in elevational contour.

15 9. The shock dampening system as recited in Claim 6 wherein each said connecting device includes a bottom end portion engaging said horizontal bottom plate, said bottom end portion including a horizontally extended cylindrical rod member.

10 10. The shock dampening system as recited in Claim 9 wherein said horizontal bottom plate has formed therein a plurality of locating groove

recesses receptively engaging said cylindrical rod members of said connecting devices.

11. The shock dampening system as recited in Claim 10 wherein said cylindrical rod members of each said connecting device pivotally engages one
5 said locating groove of said horizontal bottom plate.

12. The shock dampening system as recited in Claim 6 wherein said connecting devices collectively form a crossed sectional contour.

13. The shock dampening system as recited in Claim 3 wherein each said connecting device is fixedly secured to each of said horizontal top and bottom
10 plates by fastening means selected from the group consisting of welded joint and screw coupling.

14. The shock dampening system as recited in Claim 1 wherein said connecting device of said damper body includes a plurality of laterally stacked plate members.

15 15. The shock dampening system as recited in Claim 14 wherein said laterally stacked plate members of said connecting device are each substantially I-shaped in elevational contour.

16. The shock dampening system as recited in Claim 15 wherein said connecting device is securely fixed to said horizontal top and bottom plates.

20 17. The shock dampening system as recited in Claim 14 wherein said

laterally stacked plate members of said connecting device each include at least a portion substantially T-shaped in elevational contour.

18. The shock dampening system as recited in Claim 1 wherein said connecting device and said horizontal top plate of said damper body are
5 integrally formed.

19. The shock dampening system as recited in Claim 18 wherein said connecting device and said horizontal top plate of said damper body define a substantially T-shaped sectional contour.

20. The shock dampening system as recited in Claim 14 wherein said
10 connecting device is formed of a metallic material.